No.



9700394

THE UNIVERSITY OF AMERICA

Husch Agricultural Resources, Juc.

THEOLOGY, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN ADJUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY SECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (I) SHALL BE SOLD BY VARIETY NAME ONLY AS A PERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF

4 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

BARLEY

'Marlis'

In Testimon Marcot, I have hereunto set my hand and caused the seal of the Hunt Buriety Arotection Office to be affixed at the City of Washington, D.C. this twelfth day of September, in the year two thousand one.

An.

Pclm Jakoul

Commissioner
Plant Variety Protection Office
I I WI Vi & ...

REPRODUCE LOCALLY. Include form number and date on all	reproductions.		FORM APPROVED - OMB NO. 0581-005	
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTEC	The following statements are m 1974 (5 U.S.C. 552a) and the P.	The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.		
APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE (Instructions and information collection burden statement on reverse)		Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).		
1. NAME OF APPLICANT(S) les it is to appear on the Certificate) BUSCH AGRICULTURAL RESOURCES, INC.		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME	
		Z028Y107A B167A	Marlis	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and County	ry)	5. TELEPHONE (include area code)	FOR OFFICIAL USE ONLY	
3515 EAST COUNTY ROAD 52 FT. COLLINS, CO 80524 USA		(970) 221–5622	PVPO NUMBER 9700394	
		6. FAX (include area code)	FDATE	
		(970) 482-5965	Sedenber 31994	
7. GENUS AND SPECIES NAME	8. FAMILY NAME (Bot	anical)	FILING AND EXAMINATION FEE:	
HORDEUM VULGARE L.	GRAMINEA		E \$ 2 450.	
s. CROP KIND NAME (Common name) SPRING BARLEY			s 50pt. 3, 1997	
10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION	ON (corporation, partner	ship, association, etc.) (Common name)	c CERTIFICATION FEE	
11. IF INCORPORATED, GIVE STATE OF INCORPORATION DELAWARE 12. Date of Incorporation 01-01-81			E DATE	
16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow inst	Louis Mo	63127	(970) 482-5965	
b. X Exhibit B. Statement of Distinctness c. X Exhibit C. Objective Description of the Variety d. X Exhibit D. Additional Description of the Variety (Optional) e. X Exhibit E. Statement of the Basis of the Applicant's Ownership	•			
f. 🔀 Voucher Sample (2,600 viable untreated seeds or, for tuber propagated vg. 🖫 Filing and Examination Fee (\$2,450), made payable to "Treasurer of the Vg.		N. raint		
17. DOSS THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VA		11 • 410	GRONOMIC DATA on 83(a) of the Plant Variety Protection Acti	
YES III "yes," answer items 18 and 19 below)				
DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS GENERATIONS?	TO NUMBER OF 15	9. IF "YES" TO ITEM 18, WHICH CLASSES	OF PRODUCTION BEYOND BREEDER SEED?	
20. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN RELEA YES (If "yes," give names of countries and dates)				
		e de la companya de l	· · · · · · · · · · · · · · · · · · ·	
21. The applicant(s) declare that a viable sample of basic seed of the variety will be full applicable, or for a tuber propagated variety a tissue culture will be deposited in a	rnished with application public repository and m	and will be replenished upon request in acco sintained for the duration of the certificate.	rdance with such regulations as may be	
The undersigned applicant(s) is(are) the owner(s) of this sexually reproduced or tub Section 42, and is entitled to protection under the provisions of Section 42 of the P	Plant Variety Protection A	Act.	stinct, uniform, and stable as required in	
Applicant(s) is(are) informed that false representation herein can jeoperdize protection of Applicant (of ner(st))		s. JRE OF APPLICANT <i>(Owner(s))</i>		
NAME (Plods print or po) OSEPH TG aser CAPACITY OR TITLE DATE		lease print or type)	DATE	
Assoc, Plant Breeder 8-29	7-97 CAPACIT	Y OR TITLE		
Purity & Multiplication		(See reverse for instructions and i	nformation collection burden statement)	

Exhibit A (revised March 2000)

ORIGIN AND BREEDING HISTORY OF B107A

Experimental Line Number: Z028Y107A

Pedigree: Alexis/3/Kimberly//Klages/Summit

Date of Cross: 1989

History:

The selection B107A originated in Fort Collins Colorado as an F4 headrow in 1991. A subsample of the F5 was selected in 1992 at Blois France and advanced to a first year yield trial in 1993 near Saultain France as experimental line number Z028Y107A.

This experimental line was tested under a second year replicated yield trial in Fort Collins Colorado in 1994. In the years 1995, 1996, and 1997 this experimental line has been tested in numerous locations throughout France, Spain, China, Korea, and Argentina, as well as the Western barley states of Idaho and Montana.

The main improvement objectives in the selection process of B107A include high yield, short straw with resistance to lodging, disease resistance to Powdery Mildew (Erysiphe graminis) as well as good malting quality.

B107A has been uniform and stable during the 3 generations of the final purification and multiplication process. No variants have been detected during this time and less than 1 per 1000 off-types have been detected.

A pedigree method of the purification and multiplication of B107A began with a 1995 F7 bulk in Fort Collins Colorado of which 100 heads were selected.

In 1996 16 of those 100 headrows planted in Fort Collins were selected for winter season increase in Argentina.

In August 1996, those 16 headrows were increased as 16 plots in Balcarce Argentina, rogued with 10% rejection. Four of the 16 plots were selected to produce 400 spikes for Fort Collins increase.

From those 400 headrows in 1997 Fort Collins, 355 headrows were selected and bulked to produce 1998 breeder seed. Certified seed will be available in the year 2000.

STATEMENT OF DISTINCTNESS

B107A is most similar to the spring barley variety "B1202" -- however it can be distinguished by the following morphological characteristics.

- B107A plant height is short.
 B1202 plant height is medium tall.
- B107A has stem exertion of 0 3 cm.
 B1202 has a stem exertion of 3 10 cm.
- B107A has a saucer shaped collar.
 B1202 has a V-shaped collar.
- B107A has a parallel head shape.
 B1202 has a strap head shape.
- B107A has a mid-dense head density.
 B1202 has a lax head density.
- B107A has glume hair confined to a band.
 B1202 glumes are completely covered with hair.
- B107A has a plant height of 73.2 cm.
 B1202 has a plant height of 85.7 cm.

UNITED STATES DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE LIVESTOCK, POULTRY, GRAIN & SEED DIVISION BELTSVILLE, MARYLAND 20705

EXHIBIT C (Barley)

OBJECTIVE DESCRIPTION OF VARIETY BARLEY (HORDEUM VULGARE)

NAME OF APPLICANT(S)	
BUSCH AGRICULTURAL RESOURCES, INC.	FOR OFFICIAL USE ONLY
ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)	PVPO NUMBERY / UU 3 7 4
3515 EAST COUNTY ROAD 52	VARIETY NAME OR TEMPORARY
FT. COLLINS, CO 80524 USA	DESIGNATION
Place the appropriate number that describes the varietal character of this variety in the	ne hores helow.
Place a zero in first box (i.e. 0 8 9 or 0 9) when number is either 99 or less of	or 9 or less.
1. GROWTH HABIT:	
1. 1 = SPRING 2 = FACULTATIVE WINTER 3 = WINTER 3	: 1 - PROSTRATE 2 - SEMIPROSTRATE 3 - ERECT
2. MATURITY (50% Flowering):	
1 = EARLY (California Mariout) 2 = MIDSEASON (Betzes) 3 = LATE (Frontier)	
No. of days Earlier than 8 1 = BETZES 2 = CALIFORNIA MARIOUT	3 = CONQUEST 4 = DICKSON
No. of days Later than	N 8 = B1202
3, PLANT HEIGHT (From soil level to top of head):	
1 = SEMIDWARF 2 = SHORT (California Mariout) 3 = MEDIUM TALL (Betzes)	4 = TALL (Conquest)
1 - SEMIDWARF 2 - SHORT (California markout) 3 - MEDIUM TALE (Batzas)	4 - 1 Wer foundment
6 Cm. Shorter than 8 1 = BETZES 2 = CALIFORNIA MARIOUT	
Cm. Taller than 5 = PIROLINE 6 = PRIMUS 7 = UNITA	N 8 = B1202
4. STEM:	
1 = 0 - 3 cm. 2 = 3 - 10 cm. 1 = 0 - 3 cm. 2 = 3 - 10 cm. 1 = 0 - 3 cm. 2 = 3 - 10 cm. 1 = 0 - 3 cm. 2 = 3 - 10 cm. 1 = 0 - 3 cm. 2 = 3 - 10 cm.	1 = ABSENT 2 = PRESENT
0 5 NO. OF NODES (Originating from node above ground)	
5 Collar Shape: 1 = CLOSED 2 = V-SHAPED 3 = OPEN 1 4 = MODIFIED CLOSED OR OPEN 5. Saucer 1 Shape of Neck:	1 = STRAIGHT 2 = SNAKY 3 = OTHER (Specify)
5. LEAF:	
Basal leaf sheath (seedling): 1 = GLABROUS 2 = PUBESCENT 2 Position of flag I	1 = DROOPING leaf (at boot stage): 2 = UPRIGHT
2 Waxiness: 1 = ABSENT (Glossy) 2 = SLIGHTLY WAXY 1 8 MM. WIDTH	l (First leaf below flag leaf)
2 4 CM. LENGTH (First leaf below flag leaf) 2 Anthocyanin in le	eaf sheath: 1 = ABSENT 2 = PRESENT
6. HEAD:	
	= LAX 2 = ERECT (Not dense) = ERECT (Dense) 4 = MID DENSE
T	= ABSENT (Glossy) 2 = SLIGHTLY WAXY = WAXY
1 = NONE 2 = AT TIP 3 = 1/4 - 1/2 OF HEAD 3 Rachis (Hair on e	dge): 1 = LACKING 2 = FEW 3 = COVERED
7. GLUME:	
2 Length: 1 = 1/3 OF LEMMA 2 = 1/2 OF LEMMA 3 = MORE THAN 1/2 OF LEMMA 3 Hairs: 1 = NO	NE 2 = SHORT 3 = LONG
3 Hair covering: 1 = NONE 2 = RESTRICTED TO MIDDLE 3 = CONFINED TO BA	AND 4 - COMPLETELY COVERED
Awns: 1 = LESS THAN EQUAL TO LENGTH OF GLUMES 2 = EQUAL TO LENGT 3 = MORE THAN EQUAL TO LENGTH OF GLUMES	TH OF GLUMES
3 Awn Surface: 1 = SMOOTH 2 = SEMISMOOTH 3 = ROUGH	

8. LEMMA:	
5 Awn: 1 = AWNLESS 2 = AWNLETS ON CENTRAL ROWS AWNLESS ON LATERAL ROWS	
3 = SHORT ON CENTRAL ROWS, AWNLETS ON LATERAL ROWS A = SHORT //on the annula	n length of enike)
A TOTAL MANAGE THEM SHARES OF HOODED	
Z. Awn Surface: 0 = AWNLESS 1 = SMOOTH 2 = SEMISMOOTH 3 = ROUGH	970039 4
Awn Surface: 0 = AWNLESS 1 = SMOOTH 2 = SEMISMOOTH 3 = ROUGH	
2 Teeth: 1 = ABSENT 2 = FEW 3 = NUMEROUS 1 Hair: 1 = ABSENT 2 = PRESENT	
to the state of th	
1 Shape of base: 1 = DEPRESSION 2 = SLIGHT CREASE 2 Rachilla Hairs: 1 = SHORT 2 = LO	NC.
THATTE GREATE	10
9. STIGMA:	
2 Hairs: 1 = FEW 2 = MANY	
10. SEED:	
2 Type: 1 = NAKED 2 = COVERED 1 Hairs on Ventral Furrow: 1 = ABSENT	n - 2000
2 Type: 1 = NAKED 2 = COVERED 1 Hairs on Ventral Furrow: 1 = ABSENT	2 = PRESENT
3 Length: 1 = SHORT (8.0 mm.) 2 = SHORT TO MIDLONG (7.5 - 9.0 mm.) 3 = MIDLONG (8.5 - 9.5 mm.)	\
3 Length: 1 = SHORT (8.0 mm.) 2 = SHORT TO MIDLONG (7.5 - 9.0 mm.) 3 = MIDLONG (8.5 - 9.5 mm.) 4 = MIDLONG TO LONG (9.0 - 10.5 mm.) 5 = LONG (10.0 mm.)	
Wrinkling of hull: 1 = NAKED 2 = SLIGHTLY WRINKLED 3 = SEMIWRINKLED 4 = WRINKLED	
	•
1 Aleurone Color: 1 = COLORLESS (White or Yellow) 2 = BLUE	~
0 0 PERCENT ABORTIVE 4 5 GMS, PER 1000 SEEDS	
11. DISEASE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)	
SEPTORIA NET BLOTCH SPOT BLOTCH POWDS	-m., 1411 mm.
	RY MILDEW
LOOSE SMUT BACTERIAL BLIGHT COVERED SMUT FALSE	
BACTERIAL BLIGHT COVERED SMUT FALSE	LOOSE SMUT
STEM RUST LEAF RUST SCAR	
STEM RUST LEAF RUST SCALE)
AY BSMV OTHER	R (Specify)
BSMV BYOV	
12. INSECT: (0 = Not tested, 1 = Susceptible, 2 = Resistant)	· · · · · · · · · · · · · · · · · · ·
GREEN BUG ENGLISH GRAIN APHID CHINCH BUG ARMY	WORM
GRASS HOPPERS CERIAL LEAF BETTLE OTHER (Specify)	
	
[U GP U A U C	
HESSIAN FLY RACES	
HESSIAN FLY RACES	
HESSIAN FLY RACES O D O E O F O G	
HESSIAN FLY RACES	
HESSIAN FLY RACES O D O E O F O G	
HESSIAN FLY RACES O D O E O F O G 13. CHEMICAL (0 = Not Tested, 1 = Susceptible, 2 = Resistant) OTHER (Specify)	
HESSIAN FLY RACES O D O E O F O G 13. CHEMICAL (0 = Not Tested, 1 = Susceptible, 2 = Resistant)	
HESSIAN FLY RACES O D O E O F O G 13. CHEMICAL (0 = Not Tested, 1 = Susceptible, 2 = Resistant) OTHER (Specify) 14. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED: CHARACTER NAME OF VARIETY CHARACTER NAME OF	VARIETY
HESSIAN FLY RACES O D O E O F O G 13. CHEMICAL (0 = Not Tested, 1 = Susceptible, 2 = Resistant) DDT OTHER (Specify) 14. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED: CHARACTER NAME OF VARIETY CHARACTER NAME OF Plant tillering B1202 Seed size B1202	VARIETY
HESSIAN FLY RACES O D O E O F O G 13. CHEMICAL (0 = Not Tested, 1 = Susceptible, 2 = Resistant) DDT OTHER (Specify) 14. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED: CHARACTER NAME OF VARIETY CHARACTER NAME OF	VARIETY
HESSIAN FLY RACES 0 D 0 E 0 F 0 G 13. CHEMICAL (0 = Not Tested, 1 = Susceptible, 2 = Resistant) OTHER (Specify) 14. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED: CHARACTER NAME OF VARIETY CHARACTER NAME OF Plant tillering B1202 Seed size B1202	VARIETY
HESSIAN FLY RACES 0 D 0 E 0 F 0 G 13. CHEMICAL (0 = Not Tested, 1 = Susceptible, 2 = Resistant) OTHER (Specify) 14. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED: CHARACTER NAME OF VARIETY CHARACTER NAME OF Plant tillering B1202 Seed size B1202 Leaf size B1202 Coleoptile elongation B1202	VARIETY
HESSIAN FLY RACES 0 D 0 E 0 F 0 G 13. CHEMICAL (0 = Not Tested, 1 = Susceptible, 2 = Resistant) DDT OTHER (Specify) 14. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED: CHARACTER NAME OF VARIETY CHARACTER NAME OF Plant tillering B1202 Leaf size B1202 Seed size B1202 Leaf color * B1202 Seedling pigmentation B1202	VARIETY
HESSIAN FLY RACES O D O E O F O G 13. CHEMICAL (0 = Not Tested, 1 = Susceptible, 2 = Resistant) OTHER (Specify) 14. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED: CHARACTER NAME OF VARIETY CHARACTER NAME OF Plant tillering B1202 Leaf size B1202 Leaf color • B1202 Leaf color • B1202 Leaf carriage B1202 REFERENCES: The following publications may be used as a reference aid for the standardization of character of the standardization of the standardization of character of the standardization of character of the standardization of	
HESSIAN FLY RACES O D O E O F O G 13. CHEMICAL (0 = Not Tested, 1 = Susceptible, 2 = Resistant) OTHER (Specify) 14. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED: CHARACTER NAME OF VARIETY CHARACTER NAME OF Plant tillering B1202 Seed size B1202 Leaf size B1202 Coleoptile elongation B1202 Leaf color - B1202 Seedling pigmentation B1202 Leaf carriage B1202 REFERENCES: The following publications may be used as a reference aid for the standardization of character of terms used in this form:	descriptions and
HESSIAN FLY RACES O D O E O F O G 13. CHEMICAL (0 = Not Tested, 1 = Susceptible, 2 = Resistant) OTHER (Specify) 14. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED: CHARACTER NAME OF VARIETY CHARACTER NAME OF Plant tillering B1202 Seed size B1202 Leaf size B1202 Coleoptile elongation B1202 Leaf color B1202 Seedling pigmentation B1202 Leaf carriage B1202 REFERENCES: The following publications may be used as a reference aid for the standardization of character of terms used in this form: 1. Wiebe, G. A., and D. A. Reid, 1961, Classification of Barley Varieties Grown in the United Standard Standar	descriptions and
HESSIAN FLY RACES O D O E O F O G 13. CHEMICAL (0 = Not Tested, 1 = Susceptible, 2 = Resistant) DDT OTHER (Specify) 14. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED: CHARACTER NAME OF VARIETY CHARACTER NAME OF Plant tillering B1202 Seed size B1202 Leaf size B1202 Coleoptile elongation B1202 Leaf color · B1202 Seedling pigmentation B1202 Leaf carriage B1202 REFERENCES: The following publications may be used as a reference aid for the standardization of character of terms used in this form: 1. Wiebe, G. A., and D. A. Reid, 1961, Classification of Barley Varieties Grown in the United Sign 1958, Technical Bulletin No. 1224, U.S. Dept. of Agriculture.	descriptions and
HESSIAN FLY RACES O D O E O F O G 13. CHEMICAL (0 = Not Tested, 1 = Susceptible, 2 = Resistant) OTHER (Specify) 14. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED: CHARACTER NAME OF VARIETY CHARACTER NAME OF Plant tillering B1202 Seed size B1202 Leaf size B1202 Coleoptile elongation B1202 Leaf color B1202 Seedling pigmentation B1202 Leaf carriage B1202 REFERENCES: The following publications may be used as a reference aid for the standardization of character of terms used in this form: 1. Wiebe, G. A., and D. A. Reid, 1961, Classification of Barley Varieties Grown in the United Standard Standa	descriptions and

COLOR: Nickerson's or any recognized color fan may be used to determine color of the described variety. FORM LPGS-470-5 (8-80) (REVERSE)

BOTANICAL DESCRIPTION OF B107A

B107A is a two-row, early season maturing spring barley — bred and developed by Busch Agricultural Resources, Incorporated in Fort Collins, Colorado.

Juvenile growth habit is erect. Plant color at boot is green with an upright flag leaf. Head shape is parallel and mid-dense in density with an erect head type. Neck is negative with a saucer collar. First rachis segment is bent back. Base of the first segment is a margin flange with hairs on the margin. Rachis shape is humped or raised with long hairs covering the edge. Glume length is one half the length of the kernel and glume hair is long and confined to a band. The glume awns are rough and equal to the length of the glume. Lemma awns are longer than the spike and rough. Lemma teeth are few on the outer lateral nerves. Lemma hair is absent and the base has a raised center. Lateral floret formation is convergent with rounded lemma tips. Seed is covered, mid-long to long, wrinkled with wax present. The aleurone is colorless. Palea tips are long. Rachilla length is one-fourth the length of the kernel with long hair thicker at the base. Ventral crease is V-shaped and lacks crease hairs.

B107A is a two-rowed variety adapted to Montana, Idaho and Wyoming.

Exhibit H Exhibit D		ļ	AGRONOMIC I	DATA		9700394
		Sta	tistical Table t (bushel per a			
<u>Variety</u>	<u>MEAN</u>	<u>SD</u>	<u>DIFF</u>	<u>N</u>	<u>t</u>	р
B107A	124.6	22.9	+12.1	19	6.71	2.15 E-6
B1202	112.5	23.3				
		Statistic	cal Table for F (centimeter		:	
<u>Variety</u>	<u>MEAN</u>	SD	DIFF	<u>N</u>	ţ	<u>р</u>
B107A	73.2	7.5	-12.5	14	6.71	2.05 E-6
B1202	85.7	3.7				
÷		Statistic	al Table for H (Julian Days			·
<u>Variety</u>	<u>MEAN</u>	<u>SD</u>	DIFF	<u>N</u>	· t	<u>p</u>
B107A	155.3	2.53	3.3	10	5.74	1.59 E-5
B1202	152.0	2.68				
	Stat		for Powdery sistant, 9 = su		istance	
<u>Variety</u>	<u>MEAN</u>	<u>SD</u>	<u>DIFF</u>	<u>N</u>	<u>t</u>	<u>p</u>
B107A	2.61	1.37	-1.89	9	3.91	0.0009
B1202	4.50	1.53		•		
						•
e.			tical Table for sistant, 9 = su		·	
<u>Variety</u>	<u>MEAN</u>	<u>SD</u>	<u>DIFF</u>	<u>N</u>	<u>t</u>	₽
B107A	1.07	0.24	-3.47	15	5.79	1.4 E-5
B1202	4.53	2.00			· · ·	

REPRODUCE LOCALLY. Include form number and date on all reproductions.	FORM APPROVED - OMB NO. 0581-0055 EXPIRES: 12			
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995. Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).			
1. NAME OF APPLICANT(S) BUSCH AGRICULTURAL RESOURCES, INC.	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER Z028Y107A	3. VARIETY NAME B107A		
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)	5. TELEPHONE (include area code)	6. FAX (include area code)		
3515 EAST COUNTY ROAD 52	(970) 221-5622	(970) 482-5965		
FT. COLLINS, CO 80524 USA	7. PVPO NUMBER 970039 4			
8. Does the applicant own all rights to the variety? Mark an "X" in appropriate bl	ock. If no, please explain.	X YES NO		
9. Is the applicant (individual or company) a U.S. national or U.S. based company: If no, give name of country	,	X YES NO		
10. Is the applicant the original breeder? If no, please answer the following:a. If original rights to variety were owned by individual(s):Is (are) the original breeder(s) a U.S. national(s)? If no, give name of contents	, direct y			
	e et la description de la company	. N.		
b. If original rights to variety were owned by a company: Is the original breeder(s) U.S. based company? If no, give name of cour	ntry	YES NO		
11. Additional explantion on ownership (If needed, use reverse for extra space):				
PLEASE NOTE:				
Plant variety protection can be afforded only to owners (not licensees) who meet on 1. If the rights to the variety are owned by the original breeder, that person must be of a country which affords similar protection to nationals of the U.S. for the same	e a U.S. national, national of a l	JPOV member country, or national		
If the rights to the variety are owned by the company which employed the origin nationals of a UPOV member country, or owned by nationals of a country which genus and species.				
3. If the applicant is an owner who is not the original breeder, both the original bree	eder and the applicant must mee	t one of the above criteria.		
The original breeder may be the individual or company who directed final breeding definition.	ng. See Section 41(a)(2) of th	e Plant Variety Protection Act for		

Public reporting burden for this collection of information is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data source's, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Officer, OIRM, AG Box 7630, Jamie L. Whitten Building, Washington, D.C. 20250. When replying, refer to OMB No. 0581-0055 and form number in your letter.

Under the PRA of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

The U.S. Department of Agriculture (USDA) prohibits discrimination in its programs on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, and marital or familial status, (Not all prohibited bases apply to all programs). Persons with disabilities who require alternative means for communication of program information (braille, large print, audiotape, etc.) should contact the USDA Office of Communications at (202) 720-2791.

To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call (202) 720-7327 (voice) or (202) 720-1127 (TDD). USDA is an equal employment opportunity employer.

STATEMENT OF THE BASIS OF APPLICANT'S OWNERSHIP

Busch Agricultural Resources, Incorporated is applicant for protection in this case being:

- a) The incorporated business registered in Delaware for and within regular employees have bred B107A
- b) The proprietary owner and intending commercial seller of B107A